

05/13/14 Agenda:

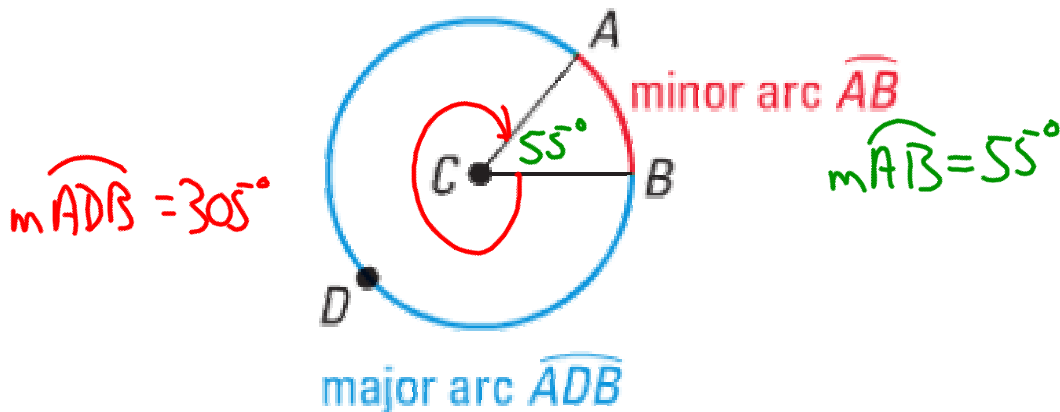
- Review Homework
 - Worksheet 1 - Parts of a Circle & Tangents
- Section 10.2 - Arcs of Circles
- Homework
 - Worksheet 2 - Central Angles & Arcs

Section 10.2 - Arcs of Circles

Target 12C

May 13, 2014

Goal: Find the measure of arcs.



Arc: An arc is part of a circle that consists of two endpoints and all the points that lie between them.

Central Angle: An angle whose vertex is the center of a circle.

Minor Arc: An arc whose central angle is less than 180° .

Minor arcs are named by their endpoints. The measure of a minor arc is the measure of its central angle.

Major Arc: An arc whose points are outside of a central angle.

Major arcs are named by their endpoints and a point on the arc. The measure of a major arc is difference of 360° the related minor arc. ($360^\circ - \text{minor arc}^\circ$)

Semicircle: An arc whose endpoints are the endpoints of a diameter.

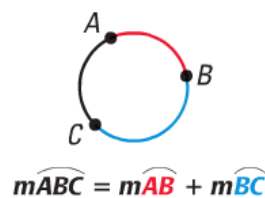
ADJACENT ARCS Two arcs of the same circle are *adjacent* if they have a common endpoint. You can add the measures of two adjacent arcs.

POSTULATE

For Your Notebook

POSTULATE 23 Arc Addition Postulate

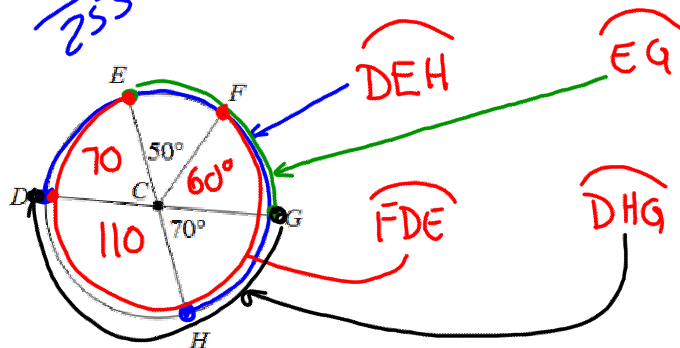
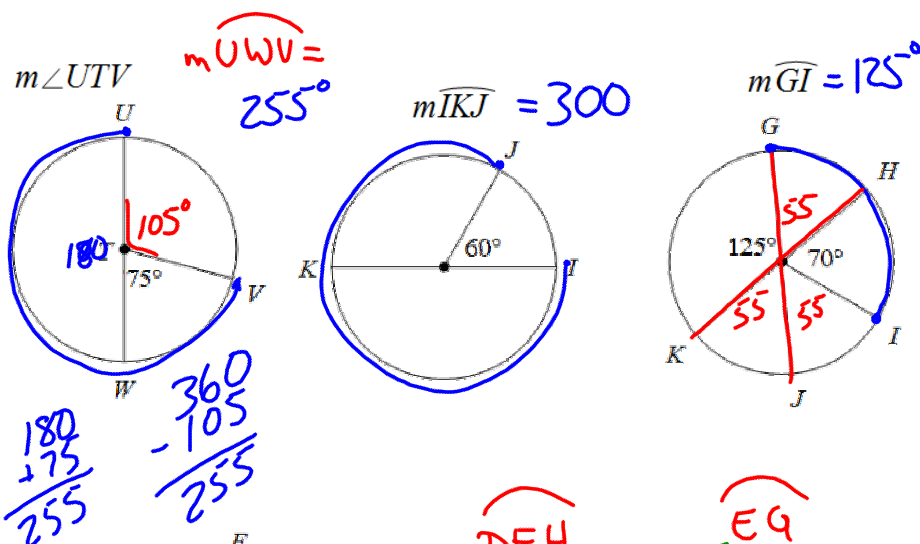
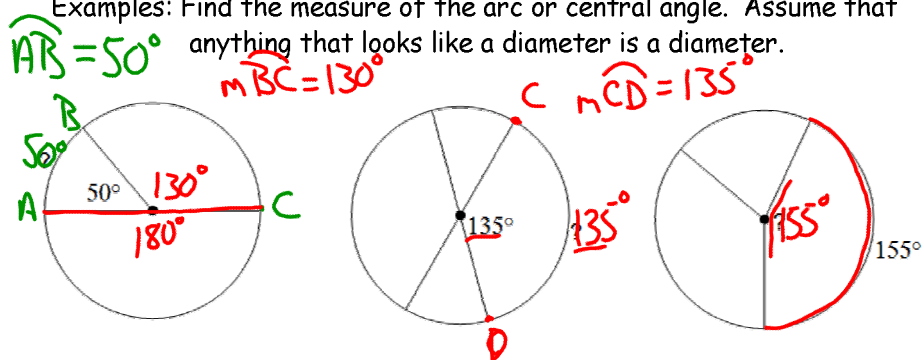
The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs.



Section 10.2 - Arcs of Circles
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Examples: Find the measure of the arc or central angle. Assume that anything that looks like a diameter is a diameter.



Discussion Question:

If two arcs have the same measure, are they necessarily congruent?

